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APPLICANT(S): Grotendorst and Neff
TITLE: CONNECTIVE TISSUE GROWTH FACTOR
FRAGMENTS AND METHODS AND USES THEREOF
Application No.: Unassigned Filing Date: September 9, 2003
Docket No.: FIBRO1130-3

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cccggccgacagcccgagacgacagcccggcgcgtcccggtccccacctccgaccaccgcca accATGACCGCCGCCAGTATGGGCCCCGTCCGCGTCGCCTTCGTGGTCCTCCTC TAASMGPVRVAFVVLL GCCCTCTGCAGCCGGCCGGCCGTCGGCCAGAACTGCAGCGGGCCGTGCCGGTGCCCGGAC P A V G Q N C S G P C R C P D ALC S R |-> exon 2 GAGCCGCGCCGCCGCCGGCGGCGTGAGCCTCGTGCTGGACGGCTGCGGCTGCTGC EPAPRCPAGVSLVL G C CGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCCTGCGACCCGCAC LCT RVCAKQLGE E R D PC AAGGGCCTCTTCTGTGACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCC F C DF G S Ρ Α N R K Ι G \ -> AAAGATGGTGCTCCCTGCATCTTCGGTGGTACCGGTGTACCGCAGCGGAGAGTCCTTCCAG K D G A P C I F G G T V Y RSGE S exon 3 AGCAGCTGCAAGTACCAGTGCACGTGCCTGGACGGGCCGGTGGGCTGCATGCCCCTGTGC S S C K Y O C T C L D G A V G C M Р AGCATGGACGTTCGTCTGCCCAGCCCTGACTGCCCCTTCCCGAGGAGGGTCAAGCTGCCC PSPD C P F PRRV GGGAAATGCTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAACCGTGGTTGGGCCT GKCCE EWVC DEPK D O Т G P GCCCTCGCGCCTTACCGACTGGAAGACACGTTTGGCCCAGACCAACTATGATTAGAGCC E D T F G P D P A L T Α Α Y R L М Т |-> exon 4 AACTGCCTGGTCCAGACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATC NCLVQ Т Т Ε W SAC S K T C G M TCCACCCGGGTTACCAATGACAACGCCTCCTGCAGGCTAGAGAAGCAGAGCCGCCTGTGC R V T ASCRL N D N E K O

FIG. 2-1

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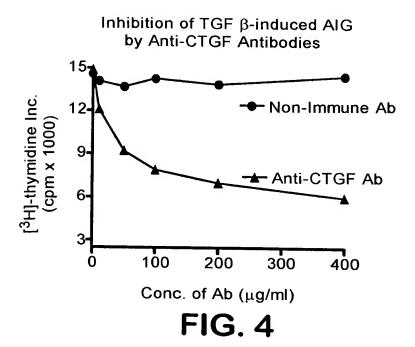
ATGGTCAGGCCTTGCGAAGCTGACCTGGAAGAGAGACATTAAGAAGGGCCAAAAAGTGCATC R Ρ C Ε A D L Ε Ε K N Ι K G K K C Ι | **-** > exon 5 CGTACTCCCAAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAAG K Т S K P Ι K F Ε L S G C S Μ ACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCCACAGA K F C G V C Т D G R C ACCACCACCCTGCCGGTGGAGTTCAAGTGCCCTGACGGCGAGGTCATGAAGAAGAACATG L Р V E F K C Р D G E K N ATGTTCATCAAGACCTGTGCCTGCCATTACAACTGTCCCGGAGACAATGACATCTTTGAA F C Α C Н Y Ν C Ρ G D Ν Ι F TCGCTGTACTACAGGAAGATGTACGGAGACATGGCATGAagccagagagtgagagacatt S L Y Y R K M Y G D Μ A

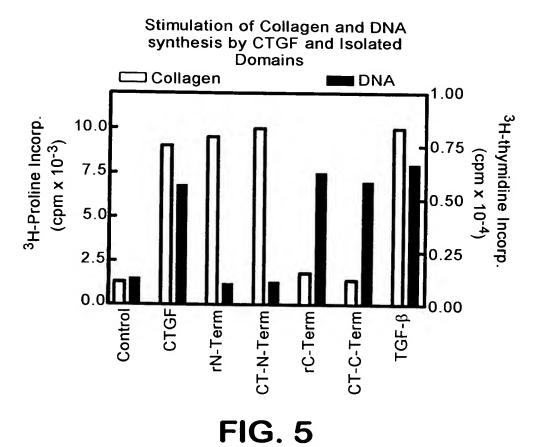
FIG. 2-2

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GCCCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCCAGACCCAACTATGATTAGAGCC														CC					
A	L		A ->	_		L 4	Е	D	T	F	G	P	D	P	Т	M	Ι	R	A
AACTGCCTGGTCCAGACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATC															TC				
N	С	L	V	Q	T	Т	E	W	S	Α	С	S	K	T	С	G	M	G	I
TCCACCCGGGTTACCAATGACAACGCCTCCTGCAGGCTAGAGAAGCAGAGCCGCCTGTGC															GC.				
S	T	R	V	T	N	D	N	A	S	С	R	L	E	K	Q	S	R	L	С
ATGGTCAGGCCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAAGGGCAAAAAGTGCATC															TC				
M	V	R	P	С	E	Α	D	L	E	E	N	I	K	ĸ	G	K	K	С	I
														->	ex	con	5		
CGTACTCCCAAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAAG															ΔAG				
R	T	P	K	I	S	K	P	I	K	F	E	L	s	G	С	T	s	M	K
ACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCCACAGA															ιGΑ				
T,	Y	R	A	K	F	С	G	V	С	T	D	G	R	С	С	Т	P	Н	R
ACCACCACCTGCCGGTGGAGTTCAAGTGCCCTGACGGCGAGGTCATGAAGAAGAACATG															ΔTG				
T	Т	Т	L	P	V	E	F	K	С	P	D	G	Е	V	М	K	K	N	M
ATGTTCATCAAGACCTGTGCCTGCCATTACAACTGTCCCGGAGACAATGACATCTTTGAA															ממי				
М		T	K	T	C	A		H		N	C	P	G	ח	N	D	T	F	E
	_	_		_			Ū		_	-	Ū	-	Ū	_		_	_	-	_
rcg	CTGT	CAC.	rac <i>i</i>	AGG	AAGA	ATGT	CACC	GAG	ACA	ATGO	CAT	GAa	agco	caga	agaç	gtga	gaç	gaca	itt
S	L	Y	Y	R	K	М	Y	G	D	M	Α	*							





Effect of EGF on CTGF Mitogenic Activity

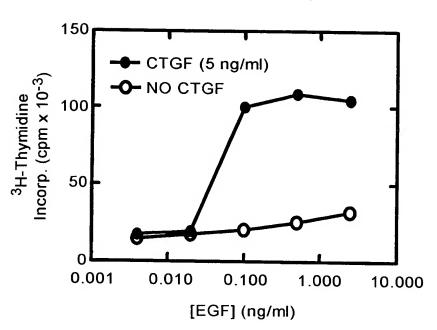
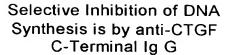


FIG. 6



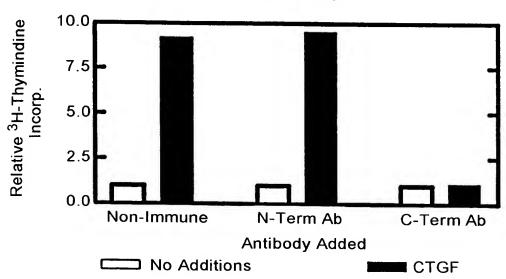


FIG. 7